

HOMework:

Objective: Students will be able to solve for percent, percentage or base.

$$\text{Percentage} = \text{Base} \cdot \text{Rate}$$

Examples 1: 24% **of** 400 **is** what number?

Translate the sentence.

"of" between two numbers means multiplication

"is" means equal to "="

0.24 times 400 is equal to x

$0.24 \cdot 400 = x$ Which value is x? Is it **Percentage**, Base or Rate?

$\text{Rate} \cdot \text{Base} = \text{Percentage}$ Therefore $P = 0.24 \cdot 400$ $P = 96$

Examples 2: 18 is 6% of what number?

Translate the sentence.

18 is equal to 0.06 times x

$18 = 0.06 \cdot x$ Which value is x? Is it Percentage, **Base** or Rate?

$\text{Percentage} = \text{Base} \cdot \text{Rate}$ **Therefore** $18 = 0.06 \cdot \text{Base}$ $B = 300$

Examples 3: What percent of 120 is 36?

Translate the sentence.

x times 120 is equal to 36

$x \cdot 120 = 36$ Which value is x? Is it Percentage, Base or **Rate**?

$\text{Percentage} = \text{Base} \cdot \text{Rate}$ **Therefore** $\text{Rate} \cdot 120 = 36$ $R = 0.30$
Percent = 30%

1. 55 is what percent of 110?	2. What is 85% of 500?
3. 24% of what number is 1050?	4. Find 25% of 528.
5. How much is 78% of 54?	6. 11 <u>out of</u> 29 is what percent? (*out of: Division)
7. 125 of what number is	8. 41 out of what number is 42.7%